

***Individual Proposal Report***

**Title: Real Time Monitoring of Temperature and Salinity in the San Joaquin River (D252)**

**Geographic Area:** San Joaquin Mainstem

**Primary Stressor Addressed:** Water Quality

**Project Type:** Monitoring

**Applicant Type and Name:** State. California Department of Water Resources, Earle Cummings, (916) 227-7519.

**Funding:** The applicant has requested \$1.35 million for a three year program. The first year's cost, \$517,000, was approved in the 1997 Category III funding cycle. It is recommended that the second year's cost, \$415,000, be appropriated from 1998 Category III monies.

**Cost Share:** In-kind services contributed by agencies participating in the Program.

**Project Description:** The San Joaquin River Real-Time Water Quality Management Program uses telemetered stream stage stations, salinity data, and computer models to simulate and forecast water quality conditions along the lower San Joaquin River. The Program's goal is to increase the frequency of meeting the salinity water quality objective, thereby reducing the number and/or magnitude of high quality releases of fresh water made specifically for meeting salinity objectives. This proposal shall involve expansion of the monitoring network, operation and maintenance of the network sensors, continuous sampling of water quality at key network sites, data assessment, and water quality modeling.

**ERPP Linkage:** The proposal meets the goals of the Ecosystem Restoration Program Plan (CALFED, Volume II, 28 July 1997) as it should help to reduce losses of fish and wildlife from use of pesticides, hydrocarbons, heavy metals, and other pollutants in the basin (page 359), and manage flow releases from tributary streams to provide adequate upstream and downstream passage of fall-run and late-fall-run chinook salmon, rainbow trout, and steelhead from the Merced River confluence to Vernalis (page 355).

**AFRP Linkage:** This proposal contributes toward making all reasonable efforts to at least double natural production of anadromous fish as it supports the following evaluation listed in the Revised Draft Restoration Plan for the Anadromous Fish Restoration Program (USFWS, 30 May 1997): Evaluate the benefit of and opportunities for new technologies to improve water quality and to guide migrating fish (Sacramento-San Joaquin Delta Evaluation 7, page 106).

**Applicant's Proposed Monitoring:** The primary function of this proposal is water quality monitoring and data evaluation. CALFED staff will review the proposed monitoring plan and revise as necessary.